

SEQUENCE LISTING

<110> EluSys Therapeutics, Inc.
 <120> Immunogenicity-reduced anti-CR1 antibody and compositions and methods of treatment based thereon
 <130> ELI-037US
 <140> 10/551,525
 <141> 2005-09-30
 <150> 60/458,869
 <151> 2003-03-28
 <160> 14
 <170> PatentIn version 3.2
 <210> 1
 <211> 366
 <212> DNA
 <213> Mus musculus

<400> 1
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 acctgcactg tcaactggcta ctcaatcacc agtgattatg cctggaactg gatccggcag 120
 tttccaggaa acaagctgga gtggatgggc tacataagct acagtggtag cactagctac 180
 caccatctc tcaaaagtcg aatctctatc actcgagaca catccaagaa ccagttcttc 240
 ctgcagttga attctgtgac tactgaggac acagccacat attactgtac aactatcatt 300
 aactatgata agtacgactg gtacttcgat gtctggggcg cagggaccac ggtcaccgtc 360
 tcctca 366

<210> 2
 <211> 122
 <212> PRT
 <213> Mus musculus

<400> 2
 Asp Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Gln
 1 5 10 15
 Ser Leu Ser Leu Thr Cys Thr Val Thr Gly Tyr Ser Ile Thr Ser Asp
 20 25 30
 Tyr Ala Trp Asn Trp Ile Arg Gln Phe Pro Gly Asn Lys Leu Glu Trp
 35 40 45
 Met Gly Tyr Ile Ser Tyr Ser Gly Ser Thr Ser Tyr His Pro Ser Leu
 50 55 60

Lys Ser Arg Ile Ser Ile Thr Arg Asp Thr Ser Lys Asn Gln Phe Phe
65 70 75 80

Leu Gln Leu Asn Ser Val Thr Thr Glu Asp Thr Ala Thr Tyr Tyr Cys
85 90 95

Thr Thr Ile Ile Asn Tyr Asp Lys Tyr Asp Trp Tyr Phe Asp Val Trp
100 105 110

Gly Ala Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 3
<211> 332
<212> DNA
<213> Mus musculus

<220>
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<222> (32)..(34)
<223> n is a, c, g, or t

<220>
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<222> (67)..(69)
<223> n is a, c, g, or t

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atctcannng ggccagccaa agtgtcagga catcaagtta tagttatata cactggtacc 120
aacagaaacc aggacagcca cccaaactcc tcatcaagta tgcattccagc ctagaatctg 180
gggtccctgc caggttcagt ggcagtgggt ctgggacaga cttcaccctc aacatccatc 240
ctgtggagga ggaggatact gcaacatatt actgtcagca cagttgggag attccgtgga 300
cgttcgggtg aggcaccaca ctggaaatca ga 332

<210> 4
<211> 111
<212> PRT
<213> Mus musculus

<400> 4

Asp Ile Val Leu Thr Gln Ser Pro Ala Ser Leu Val Val Ser Leu Arg
1 5 10 15

Gln Arg Ala Thr Ile Ser Cys Arg Ala Ser Gln Ser Val Arg Thr Ser
20 25 30

Ser Tyr Ser Tyr Ile His Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro
 35 40 45

Lys Leu Leu Ile Lys Tyr Ala Ser Ser Leu Glu Ser Gly Val Pro Ala
 50 55 60

Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Asn Ile His
 65 70 75 80

Pro Val Glu Glu Glu Asp Thr Ala Thr Tyr Tyr Cys Gln His Ser Trp
 85 90 95

Glu Ile Pro Trp Thr Phe Gly Gly Gly Thr Thr Leu Glu Ile Arg
 100 105 110

<210> 5
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 <213> Mus musculus

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 <222> (664)..(666)
 <223> n is a, c, g, or t

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 <222> (700)..(702)
 <223> n is a, c, g, or t

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 caaacagann nncatgagat cacagttctc tctacagtta ctgagcacac aggacctcac 120
 catgggatgg agctgtatca tcctcttctt ggtagcaaca gctacaggta aggggctcac 180
 agtagcaggc ttgaggtctg gacatatata tgggtgacaa tgacatccac tttgcctttc 240
 tctccacagg tgtccactcc gatgtgcagc ttcaggagtc gggacctggc ctggtgaaac 300
 cttctcagac tctgtcctc accctgcactg tctctggcta ctcaatgacc agtgattatg 360

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cctggaactg gattcggcag tttccaggaa aggggctgga gtggatcggc tacataagct 420
acagtggtag cactacctac cacccatctg tcaaaagtcg aatcactatc tctcgagaca 480
catccaagaa ccagttcttc ctgcagatga actctgtgac tactgaggac acagccacat 540
attactgtac aactatcatt aactatgata agtacgactg gtacttcgat tactggggcc 600
aagggaccac ggtcacgcgc tcctcaggtg gtccttaciaa cctctctctt ctattcagct 660
taannngatt ttactgcatt tgttgggggg gaaatgtgtn nntctgaatt tcagggtcatg 720
aaggactagg gacaccttgg gagtcagaaa gggtcattgg gagcccgggc tgatgcagac 780
agacatcctc agctcccaga cttcatggcc agagatttat aggatcc 827

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<210> 6
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<213> Mus musculus

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<400> 6

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Gly Val His Ser Asp Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val
1          5          10          15

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Lys Pro Ser Gln Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Tyr Ser
20          25          30

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Met Thr Ser Asp Tyr Ala Trp Asn Trp Ile Arg Gln Phe Pro Gly Lys
35          40          45

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Gly Leu Glu Trp Ile Gly Tyr Ile Ser Tyr Ser Gly Ser Thr Thr Tyr
50          55          60

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His Pro Ser Val Lys Ser Arg Ile Thr Ile Ser Arg Asp Thr Ser Lys
65          70          75          80

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Asn Gln Phe Phe Leu Gln Met Asn Ser Val Thr Thr Glu Asp Thr Ala
85          90          95

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Thr Thr Tyr Cys Thr Thr Ile Ile Asn Tyr Asp Lys Tyr Asp Trp Tyr
100          105          110

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Phe Asp Tyr Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser
115          120          125

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<210> 7
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<212> DNA
<213> Mus musculus

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 tgggatggag ctgtatcatc ctcttcttgg tagcaacagc tacaggtaag gggctcacag 180
 tagcaggctt gaggtctgga catatatatg ggtgacaatg acatccactt tgcctttctc 240
 tccacaggtg tccactccga cattgtgctg acacagtctc ctgcttcctt agttgtgtct 300
 gtgaggcaga gggccaccat ctcatgcagg gccagccaaa gtgtcaggac atcaagttat 360
 agttatatac actggtacca acagaaacca ggacagccac ccaaactcct catctactat 420
 gcatccagcc tagaatctgg ggtccctgcc aggttcagtg gcagtgggtc tgggacagac 480
 ttcacctca acatcagtc tgtggaggag gaggatactg caacatatta ctgtcagcac 540
 agttgggaga ttccgtggnc gttcgggtcca ggcaccaaag tggaaatcaa acgtgagtag 600
 aatttaaact ttgcttcctc agttggatcc 630

<210> 8
 <211> 114
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 <213> Mus musculus

<220>
 <221> misc_feature
 <222> (104)..(104)
 <223> Xaa can be any naturally occurring amino acid

<400> 8
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 20 25 30
 Val Arg Thr Ser Ser Tyr Ser Tyr Ile His Trp Tyr Gln Gln Lys Pro
 35 40 45
 Gly Gln Pro Pro Lys Leu Leu Ile Tyr Tyr Ala Ser Ser Leu Glu Ser
 50 55 60
 Gly Val Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Phe Thr Leu
 65 70 75 80

Asn Ile Ser Pro Val Glu Glu Glu Asp Thr Ala Thr Tyr Tyr Cys Gln
85 90 95

His Ser Trp Glu Ile Pro Trp Xaa Phe Gly Pro Gly Thr Lys Val Glu
100 105 110

Ile Lys

<210> 9
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<212> PRT
<213> Mus musculus

<400> 9

Asp Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Gln
1 5 10 15

Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Tyr Ser Met Thr Ser Asp
20 25 30

Tyr Ala Trp Asn Trp Ile Arg Gln Phe Pro Gly Lys Gly Leu Glu Trp
35 40 45

Ile Gly Tyr Ile Ser Tyr Ser Gly Ser Thr Ser Tyr His Pro Ser Val
50 55 60

Lys Ser Arg Ile Thr Ile Ser Arg Asp Thr Ser Lys Asn Gln Phe Phe
65 70 75 80

Leu Gln Met Asn Ser Val Thr Thr Glu Asp Thr Ala Thr Tyr Tyr Cys
85 90 95

Thr Thr Ile Ile Asn Tyr Asp Lys Tyr Asp Trp Tyr Phe Asp Val Trp
100 105 110

Gly Gln Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 10
<211> 122
<212> PRT
<213> Mus musculus

<400> 10

Asp Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Gln

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Thr	Leu	Ser	Leu
20	Thr	Cys	Thr
Val	Ser	Gly	Tyr
25	Ser	Met	Thr
30	Ser	Asp	
Tyr	Ala	Trp	Asn
35	Trp	Ile	Arg
40	Gln	Phe	Pro
45	Gly	Lys	Gly
Leu	Glu	Trp	
Ile	Gly	Tyr	Ile
50	Ser	Tyr	Ser
55	Gly	Ser	Thr
60	Tyr	His	Pro
Ser	Leu		
Lys	Ser	Arg	Ile
65	Ser	Ile	Ser
70	Arg	Asp	Thr
75	Ser	Lys	Asn
80	Gln	Phe	Phe
Leu	Gln	Met	Asn
85	Ser	Val	Thr
90	Thr	Glu	Asp
95	Thr	Ala	Thr
Tyr	Tyr	Cys	
Thr	Thr	Ile	Ile
100	Asn	Tyr	Asp
105	Lys	Tyr	Asp
110	Trp	Tyr	Phe
115	Asp	Val	Trp
Gly	Gln	Gly	Thr
120	Thr	Val	Thr
Ser	Ser		
<210>	11		
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<212>	PRT		
<213>	Mus musculus		
<400>	11		
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1	5	Glu	Ser
10	Gly	Pro	Gly
15	Leu	Val	Lys
20	Pro	Ser	Gln
Thr	Leu	Ser	Leu
20	Thr	Cys	Thr
25	Val	Ser	Gly
30	Tyr	Ser	Ile
35	Thr	Ser	Asp
Tyr	Ala	Trp	Asn
35	Trp	Ile	Arg
40	Gln	Phe	Pro
45	Gly	Lys	Gly
Leu	Glu	Trp	
Ile	Gly	Tyr	Ile
50	Ser	Tyr	Ser
55	Gly	Ser	Thr
60	Tyr	His	Pro
Ser	Leu		
Lys	Ser	Arg	Ile
65	Ser	Ile	Ser
70	Arg	Asp	Thr
75	Ser	Lys	Asn
80	Gln	Phe	Phe
Leu	Gln	Met	Asn
85	Ser	Val	Thr
90	Thr	Glu	Asp
95	Thr	Ala	Thr
Tyr	Tyr	Cys	

Thr Thr Ile Ile Asn Tyr Asp Lys Tyr Asp Trp Tyr Phe Asp Val Trp
100 105 110

Gly Gln Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 12
<211> 122
<212> PRT
<213> Mus musculus

<400> 12

Asp Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Gln
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Thr Leu Ser Leu Thr Cys Thr Val Thr Gly Tyr Ser Ile Thr Ser Asp
20 25 30

Tyr Ala Trp Asn Trp Ile Arg Gln Phe Pro Gly Lys Gly Leu Glu Trp
35 40 45

Met Gly Tyr Ile Ser Tyr Ser Gly Ser Thr Ser Tyr His Pro Ser Leu
50 55 60

Lys Ser Arg Ile Ser Ile Ser Arg Asp Thr Ser Lys Asn Gln Phe Phe
65 70 75 80

Leu Gln Met Asn Ser Val Thr Thr Glu Asp Thr Ala Thr Tyr Tyr Cys
85 90 95

Thr Thr Ile Ile Asn Tyr Asp Lys Tyr Asp Trp Tyr Phe Asp Val Trp
100 105 110

Gly Gln Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 13
<211> 111
<212> PRT
<213> Mus musculus

<400> 13

Asp Ile Val Leu Thr Gln Ser Pro Ala Ser Leu Val Val Ser Val Arg
1 5 10 15

Gln Arg Ala Thr Ile Ser Cys Arg Ala Ser Gln Ser Val Arg Thr Ser
20 25 30

Ser Tyr Ser Tyr Ile His Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro
35 40 45

Lys Leu Leu Ile Tyr Tyr Ala Ser Ser Leu Glu Ser Gly Val Pro Ala
50 55 60

Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Asn Ile Ser
65 70 75 80

Pro Val Glu Glu Glu Asp Thr Ala Thr Tyr Tyr Cys Gln His Ser Trp
85 90 95

Glu Ile Pro Trp Thr Phe Gly Pro Gly Thr Lys Val Glu Ile Lys
100 105 110

<210> 14
<211> 111
<212> PRT
<213> Mus musculus

<400> 14

Asp Ile Val Leu Thr Gln Ser Pro Ala Ser Leu Val Val Ser Val Arg
1 5 10 15

Gln Arg Ala Thr Ile Ser Cys Arg Ala Ser Gln Ser Val Arg Thr Ser
20 25 30

Ser Tyr Ser Tyr Ile His Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro
35 40 45

Lys Leu Leu Ile Lys Tyr Ala Ser Ser Leu Glu Ser Gly Val Pro Ala
50 55 60

Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Asn Ile Ser
65 70 75 80

Pro Val Glu Glu Glu Asp Thr Ala Thr Tyr Tyr Cys Gln His Ser Trp
85 90 95

Glu Ile Pro Trp Thr Phe Gly Pro Gly Thr Thr Val Glu Ile Lys
100 105 110